



PATENT
Atty Docket No.: 200209305-1

In The U.S. Patent and Trademark Office

In Re the Application of:

Inventor(s): Chunqiang Tang et al.

Confirmation No.: TBD

Serial No.: 10/666,621

Examiner: TBD

Filed: September 19, 2003

Group Art Unit: TBD

Title: UTILIZING PROXIMITY INFORMATION IN AN OVERLAY NETWORK

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF HAND-DELIVERY WITH THE USPTO

I hereby certify that this correspondence is being deposited with the United States Patent and Trademark Office on January 29, 2004. This correspondence contains the following document(s):

Information Disclosure Statement and Form PTO-1449 (8 sheets).
21 References.

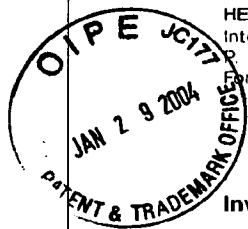
Respectfully submitted,

MANNAVA & KANG, P.C.

On January 29, 2004

Ashok K. Mannava
Reg. No.: 45,301

MANNAVA & KANG, P.C.
281 Murtha Street
Alexandria, VA 22304
(703) 628-1461
(703) 991-1162 (facsimile)



HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P. O. Box 272400
Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 200209305-1

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Chunqiang Tang et al.

Confirmation No.: TBD

Application No.: 10/666,621

Examiner: TBD

Filing Date: Sept. 19, 2003

Group Art Unit: TBD

Title: UTILIZING PROXIMITY INFORMATION IN AN OVERLAY NETWORK

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97 (c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
☐ Statement under 37 CFR 1.97(e)(1) or (2), and
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

- ☐ I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: _____

OR

- ☐ I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number _____ on _____
Number of pages: _____

Typed Name: _____

Signature: _____

Respectfully submitted,

Chunqiang Tang et al.

By Ashok K. Mannava

Ashok K. Mannava

Attorney/Agent for Applicant(s)
Reg. No. **45,301**

Date: **Jan. 29, 2004**

Telephone No.: **(703) 628-1461**

PATENT APPLICATION

Sheet 1 of 1

FORM PTO-1449

ATTY. DOCKET NO.

APPLICATION NO.

CONFIRMATION NO.

200209305-1

10/666,621

APPLICANT

Chunqiang Tang et al.

FILING DATE

Sept. 19, 2003

GROUP

OFFICE OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

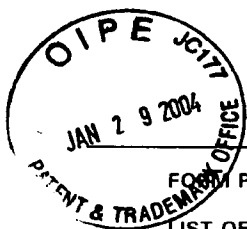
/DB/	1Q	ASANO, T. et al., "Space Filling Curves and Their Use in the Design of Geometric Data Structures", Theoretical Computer Science, 181:(1), pg.3-15.
/DB/	1R	BOLOSKEY, W. et al., "Feasibility of a Serverless Distributed File System Deployed on an Existing Set of Desktop PCs" June 2000.
/DB/	1S	CASTRO, M. et al., "Exploiting Network Proximity in Peer-to-Peer Overlay Networks", June 2002.

EXAMINER

/Douglas Blair/

DATE CONSIDERED

07/11/2008



PATENT APPLICATION

Sheet 1 of 1

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200209305-1

APPLICATION NO.

10/666,621

CONFIRMATION NO.

APPLICANT

Chunqiang Tang et al.

FILING DATE

Herewith

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

/DB/	1Q	DABEK, F. et al., "Wide-area Cooperative Storage with CFS", October 2001.
/DB/	1R	NG, T.S., et al., "Towards Global Network Positioning", ACM SIGCOMM Internet Measurement Workshop 2001.
/DB/	1S	FRANCIS, P. et al., "An Architecture for a Global Internet Host Distance Estimation Service", IEEE INFOCOM 1999, pg 210-217.

EXAMINER

/Douglas Blair/

DATE CONSIDERED

07/11/2008



PATENT APPLICATION

Sheet 1 of 1

Form PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200209305-1

APPLICATION NO.

10/666,621

CONFIRMATION NO.

APPLICANT

Chunqiang Tang et al.

FILING DATE

Herewith

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

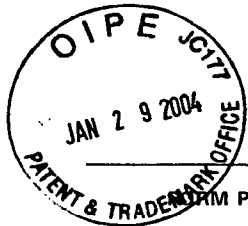
/DB/	1Q	KARP, B. et al., "GPSR: Greedy Perimeter Stateless Routing For Wireless Networks", Proceedings of ACM Conf. on Mobile Computing and Networking (MOBICOM), 2000.
/DB/	1R	KUBIATOWICZ, J. et al., "Oceanstore: An Architecture for Global-scale Persistent Storage", Proceedings of ASPLOS 2000.
/DB/	1S	LI, J. et al., "A Scalable Location Service for Geographic Ad-hoc Routing", Proceedings of ACM Conf. on Mobile Computing and Networking (MOBICOM), 2000.

EXAMINER

/Douglas Blair/

DATE CONSIDERED

07/11/2008



PATENT APPLICATION

Sheet 1 of 1

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200209305-1

APPLICATION NO.

10/666,621

CONFIRMATION NO.

APPLICANT

Chunqiang Tang et al.

FILING DATE

Herewith

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

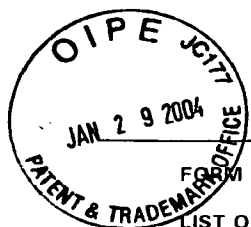
/DB/	1Q	MEDINA, A. et al., "BRITE: Universal Topology Generation from a User's Perspective", Technical Report BUCS-TR-2001.
/DB/	1R	RATNASAMY, S. et al., "A Scalable Content-Addressable Network", SIGCOMM August 2001.
/DB/	1S	RATNASAMY, S. et al., "Topologically-Aware Overlay Construction and Server Selection", IEEE Infocom 2002.

EXAMINER

/Douglas Blair/

DATE CONSIDERED

07/11/2008

**PATENT APPLICATION**

Sheet 1 of 1

FORM PTO-1449

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

200209305-1

APPLICATION NO.

10/666,621

CONFIRMATION NO.

APPLICANT

Chunqiang Tang et al.

FILING DATE

Herewith

GROUP

REFERENCE DESIGNATION**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

/DB/	1Q	ROWSTRON, A. et al., "Storage Management and Caching in PAST, a Large-Scale, Persistent Peer-to-Peer Storage Utility", SOSIP 2001.
/DB/	1R	SAVAGE, S. et al., "The End-to-End Effects of Internet Path Selection", ACM SIGCOMM August 1999.
/DB/	1S	STOICA, I. et al., "A Scalable Peer-to-Peer Lookup Service for Internet Applications", SIGCOMM August 2001.

EXAMINER

/Douglas Blair/

DATE CONSIDERED

07/11/2008



PATENT APPLICATION

Sheet 1 of 1

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200209305-1

APPLICATION NO.

10/666,621

CONFIRMATION NO.

APPLICANT

Chunqiang Tang et al.

FILING DATE

Herewith

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

/DB/	1Q	TANG, C. et al., "PeerSearch: Efficient Information Retrieval in Peer-to-Peer Networks", HotNets 2002.
/DB/	1R	WALDVOGEL, M. et al., "Efficient Topology-Aware Overlay Network", HotNets 2002.
/DB/	1S	ZEGURA, E. et al., "How to Model an INternetwork" IEEE Infocom 1996.

EXAMINER

/Douglas Blair/

DATE CONSIDERED

07/11/2008



FORM PTO-1449

OFFICE OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200209305-1

APPLICATION NO.

10/666,621

CONFIRMATION NO.

APPLICANT

Chunqiang Tang et al.

FILING DATE

Herewith

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

/DB/	1Q	XU, Z. et al., "Building Low-maintenance Expressways for P2P Systems", 2001 Hewlett-Packard Labs: Palo Alto.
/DB/	1R	XU, Z. et al., "Turning Heterogeneity to an Advantage in Overlay Routing", July 2002.
/DB/	1S	ZHANG, Z. et al. "Self-Balanced Expressway: When Marxism Meets Confucian", Technical report MSR-TR-2002-72.

EXAMINER

/Douglas Blair/

DATE CONSIDERED

07/11/2008